1st and Part bill

Job code No: 005-21-000017
work order No: EE(project)/4NK Zone/

M. A. R. 57 (Rule 116) No. D WO/134/2020-21
Measurement Book

Est cost: 16.00 Lakhs 135271

Serial No. .....

Name of work Providing RO plant from in Jakkur To in ward no. 05.

Name of Contractor of nature of Agency M.C. Adarsh, Bangalore

Date of commencement of work 13.11.2020

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
①	Earth work excavation for foundation of building water supply, sanitary lines and electrical conduits either in pit or in trenches 1.5m and above in width -- complete						
	For Columns	1x4	1.20	1.20	1.00	5.76	
	Long walls	1x2	4.60	0.80	1.00	7.36	
	Short walls	1x2	2.40	0.80	1.00	3.84	
	Debris	1x1	8.80	2.90	0.50	12.76	
		1x1	7.50	3.00	0.45	10.13	
		1x1	3.20	1.50	0.35	1.68	Cum
						41.53	
			@ Rs 509.12/cum			Rs 21141.21	

20/4/

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
②	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 kgs/cum with 40mm and down size graded granite metal course -- complete						
	Columns	1x4	1.20	1.20	0.15	0.86	
	Long walls	1x2	4.60	0.80	0.10	0.74	
	Short walls	1x2	2.40	0.80	0.10	0.38	
	Flooring	1x1	4.20	2.35	0.135	1.33	
						3.32 cum	23/4
	@ Rs 5889.44/cum						Rs 19532.03
③	Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar 1:8, stone hammered dressed -- complete						
	LW	1x2	4.60	0.60	0.50	2.76	
	SW	1x2	2.40	0.60	0.50	1.44	
						4.20 cum	
	@ Rs 5095.71/cum						Rs 21401.98
							24/4

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

135272

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4) Providing and Constructing granite Hoap/basalt Rize Stone masonry in basement with cement mortar 1:6, edges of stone chisele -- Complete						
	CuFLC SSMLW	1×2	4.60	0.45	0.50	2.07	
	SW	1×2	2.40	0.45	0.50	1.08	
						3.15 cum	
				@ Rs 5211.37/cum			Rs 16415.82
	5) Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 20 mm deep -- complete						
	CuFLC SSMLW	1×2	4.60	-	0.50	4.60	
	SW	1×2	2.40	-	0.50	2.40	
						7.00 Sqm	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			@ Rs	159.98/sqm			Rs 1119.16.
6.	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement and down size graded granite metal course - - complete. @ 340 kgs with 20 mm						
	CC & Plinth	Footg	1x4	1.20	1.20	0.30	1.73
		Column	1x4	0.23	0.30	4.50	1.24
		Beam	1x2	4.60	0.23	0.30	0.63
			1x2	2.40			
		Roof Beam	1x2	4.60	0.23	0.30	0.33
			1x2	2.40	0.23	0.20	0.42
		Slab	1x1	4.60	2.80	0.15	1.99
		Lintel	1x2	4.60	0.20	0.15	0.28
			1x2	2.40	0.20	0.15	0.14
		Chajja	1x1	4.60	0.60	0.06	0.17
						7.10	cum
			@ Rs	6854.38/cum			Rs 48649.65

26/8

M. A. R. 57 (Rule 116)

No. D

Measurement Book

135273

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
7.	Providing TMT steel reinforcement for RCC work including cutting, bending, hooking, placing in position, lapping - complete - for footings	~~1×1~~	~~1.73~~	~~50.00~~			
		~~1×1~~	~~1.24~~	~~80.00~~			
	Pre measurement taken and recorded in page No of this mob. 135992						
				Qty		0.90	ton
				at the rate of		Rs 73033.98 /ton	
						Rs 65730.58	

22/5

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
8.	Providing and removing Centering & shuttering Cutting propping etc and removal of form work for vertical surface such as walls at any thickness including attached pilasters -- complete.						
	Footing	1x4	4.80		0.30	5.76	
	Column	1x4	1.06		4.50	19.08	
	Plinth Beam	1x4	4.60		0.30	5.52	
		1x4	2.40		0.30	2.88	
	Lintel	1x2	4.60		0.15	1.38	
		1x2	2.40		0.15	0.72	
	Roof Beam	1x4	4.60		0.15	2.76	
		1x4	2.40		0.15	1.44	
	Slab	1x1	4.20		2.35	9.87	
					Sqm	49.41	Sqm
(9)	Providing and Constructing load bearing wall with Solid concrete		2215	@ Rs	405.93/sqm		Rs 20057.00

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. 135274

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	blocks of size 400x200x200 mm having minimum average block density not less than 1800 kg/m³ and having a compressive strength 5.00 N/mm² -- complete c/f/c wall	1x1	4.60		3.35	15.41	
		1x1	4.60		3.35	15.41	
		1x1	2.50		3.35	8.38	
		1x1	2.50		3.35	8.38	
	deduction	1x-1	2.10		2.50	-5.25	
		1x-1	1.00		1.00	-1.00	
						41.32	sqm
			@ Rs	1034.11	/sqm		Rs 42729.43

47.57

05/5/22

6/5

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
10.	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 to ceiling including rounding off corners wherever required -- Complete						
	C+FL Ceiling	1x1	4.20	2.35	-	9.87 sqm	
					@ Rs 255.13/sqm	Rs 2518.13	
11.	Providing 12mm thick cement plaster in single coat with cement 1:4 mortar 1:3 to brick masonry including rounding off -- Complete						
	C+FL LW	1x1	4.60	-	3.35	15.41	
	SW	1x1	4.60	-	3.35	15.41	
		1x1	2.50	-	3.35	8.38	
		1x1	2.50	-	3.35	8.38	47.58
	Deduction	-1x1	2.10	-	2.50	-5.25	
		-1x1	1.00	-	1.00	-1.00	

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

135275

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6		8
						41.32	41.33 Sqm
	~~Total~~ @ Rs 239.25/sqm Rs 9885.81						
12.	Providing 18 mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners -- complete						
	External Plastering						
	LW	1x1	4.60	-	3.50	16.10	
	CRFL	1x1	4.60	-	3.50	16.10	
		1x1	2.80	-	3.50	9.80	
		1x1	2.80	-	3.50	9.80	51.80
	Deduction	-1x1	2.10	-	2.50	-5.25	
		-1x1	1.00	-	1.00	-1.00	
						45.55	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		@ Rs 277.80 /sqm					Rs 12653.79
13.	Providing and fixing special make glazed vitrified tiles of approved make quality and colour of size 600x600x10 mm thick fixed -- Complete	1x1	4.20	2.35	-	9.87	sqm
						@ Rs 1349.33/sqm	Rs 13317.89
14	Providing and skirting dado risers of steps with colour glazed tiles on 10mm thick cement plaster 1:3 and jointed with white cement slurry -- Complete						
	deduction	1x2	4.20		0.10	0.84	
		1x2	2.35		0.10	0.47	
		1x-1	2.10		0.10	-0.21	
		@ Rs 1850.51 /sqm				1.1	sqm
							Rs 2035.51

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

135276

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work		Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
15.	Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of Comex - complete. C&FLC Nil	1x1	2.50	2.10	-	5.25 sqm	
						@ Rs 2956.06/sqm	Rs 15519.32 16/6
16.	Providing and applying two coats with oil bound washable distemper two coats of distemper of approved br and -- complete C&FLC Nil						
	for ceiling						
	L+D	1x1	4.20	2.35	-	9.87	
		1x1	4.20		2.95	12.39	
		1x1	4.20		2.95	12.39	
						34.65	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	CRFIC well	1x1	2.35		2.95	6.93	
		1x1	2.35		2.95	6.93	
	deduction	1x-1	2.10		2.50	-5.25	
		1x-1	1.00		1.00	-1.00	
						42.27	
17.	@ Rs 124.73 /sqm Providing and finishing external walls in two coats with waterproof cement paint of approved brand -- complete					4550.19	Rs 6259.58 sqm 5272.00
	CRFIC well	LW 1x1	4.60		3.50	16.10	
		SW 1x1	4.60		3.50	16.10	
		1x1	2.80		2.80	9.80	
	Deduction	1x1	2.80		3.50	9.80	
		Rs -1x1	2.10		2.50	-5.25	
		-1x1	1.00		1.00	-1.00	
	Qanak of 100.92/sqm					45.55 Rs 4596.91	

34.65 - 48.51 = 5.25 - 1.00 = 42.27 - 45.55 = 51.80

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

Name of work .....

135277

Name of Contractor of nature of Agency..... From ..... To .....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
18.	Providing and fixing M.S. grill work for windows and ventilators using MS flats and square rods as per approved design drawing -- complete	1X1	1.00		1.00	1.00	Sqm
				21 kg/sqm		21.00	
			@ Rs 107.92/sqm				Rs 2262.12
19.	Providing and fixing chlorinated Poly vinyl chloride pipes Cow -- complete	1X1	36.00	-	-	36.00	Rmt
				@ Rs 146.27/rmt			Rs 5265.72

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
20.	Raw water pump Qty office- one number type Mon Block Centrifugal operation flow rate- 4m3/hr operation pressure 4.0kg/cm² -- complete	txt				1 no each	
						② not Operated	
21	Supplying heavy guage pvc Conduit pipe -- dia with suitable size bends junction boxes, adhesive paste etc.						
		1x1	28.00	—	—	28.00	
			at the rate of Rs			68.24/meter	
						Rs 1910.72	
22	Supplying -- mm dia 2mm/2.5mm thick heavy guage PVC Conduit pipe with suitable size bends metals/PVC junction boxes adhesive paste etc -- and running before concreting the slab -- complete						

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

135278

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
			Length	Breadth			
1	2	3	4	5	6	7	8
	25mm dia 2mm thick	1x1	28.00			28.00 mtr	
				@ Rs	55.64/mtr	Rs 1557.92	
23.	Groove cutting in the wall & supplying -- Dia 2mm/2.5mm thick heavy gauge PVC conduit pipe -- complete.						17/1
	25mm dia 2mm thick	1x1	28.00	-	-	28.00 mtr	
				@ Rs	56.69/mtr	Rs 1303.87	
24.	Supplying and fixing sheet metal box made out of 18 SWG sheet metals with necessary holes for cable/conduit entry as required -- -- Complete						17/1

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	200×90×65mm C&PLC	1×1	3.00			3.00	Each
			@ the rate of 116.54/No				349.62
25.	Supplying and fixing PVC/metal conduit accessories						
	(a) 32 mm deep junction box.						
	C&PLC	1×1	1.00	–	–	1.00	No.
			@ Rs 62.99/No				Rs 62.99
26.	Supplying and flush mounting teak wooden box without front 4 1/2						
	Plant, made of not less than 12mm thick wood after – complete.						
	12"×12"×3" (330×300×76mm						
	C&PLC	1×1	10.00	–	–	10.00	mtr
				@ Rs 107.09/mtr			Rs 1070.90

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

135279

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions			Contents	Reference to last Measurement
			Length	Breadth	Depth		
1	2	3	4	5	6	7	8
27.	Suppling and wiring adopting loop system in existing PVC Conduit Casting capping using Copper PVC insulated multi strand 2x1.5 sq mm Copper wire with a 6 Amps flush type SP control - - complete Medium point above 3 mtrs upto 6 mtrs from or tapping point to outlet via switch	1x1	12.00	-	-	12.00 NO. @ Rs 288.72/NO	Rs 3464.64 Ps
28-	Suppling and fixing Superior quality modular Switch mounting polycarbonate plate with necessary supporting back plate						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	with required no of machines screws, bolts nuts etc complete						
		1X5	5.00	-	-	5.00	NO.
		@ a rate 183.73/NO					RS 918.65
29.	Supplying and fixing of 32 Amps Security and Energy Saving DP Switch with Key tag. Suitable to Operate on 230 volts						
	50 Hz AC supply and Completely wired on existing box. -- Complete						
	Group A.	1X1	2.00	-	-	2.00	Each
		@ the rate of 713.93/Each					
							RS 1427.86
							1716

M. A. R. 57 (Rule 116) **No. D**

Measurement Book

Serial No. .....

135280

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
30.	Wiring for lighting/power circuit using one q PVC Insulated 1100V grade, multistrand copper conductor signal core cable -- complete 1.5 sqmm C&E etc	~~1x3~~ 1x3	~~86.00~~ 86.00	~~860~~ -	- -	~~2.00~~ 255.00 mtr	
				@ Rs 21.52/mtr		Rs 5552.56.	1/6
31.	Supplying and fixing q PVC casing and capping on the walls of ceiling using neeeessary materials like bends, screws at an interval q 300mm etc as required						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	20 mm CRFC Nos	1X15	–	–	–	15.00 Nos.	
				@ Rs 23.10/Nos		Rs 346.50.	
32.	Supplying PVC/GI flexible conduit pipe 20 mm dia fixing on surface over inverted wooden pugs or plug plugs of sand – – complete						
	20 mm	1X16	–	–	–	16.00 mm	
	CRFC Nos			@ Rs 23.10/mm		Rs 369.60	

Nos

M. A. R. 57 (Rule 116) No. D

Measurement Book

Serial No. .....

135281

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
33	Extra for supplying 4mm thick white plastic plate and Covers for junction boxes of size 110mm conduit using necessary machine screws -- complete.						
	Qty 110mm	1x16	-	-	-	16.00	No.
					@ Rs 11.55/No		Rs 184.80

CSFIC Delhi

11/6

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
34	Providing and fixing Chlorinated Poly Venyl Chloride (PVC) pipes Confirming to IS 15778, having thermal stability for hot & Cold water -- 20 mm nominal OD pipes-						
	CSPL	1 x 1	25.00	—	=	25.00.	
				@ Rs	266.46 /mtr	Rs 6661.50.	
						~~Cancel~~ 2816	
					Total		361399.3
					355267=00		355267.00
					1 GST	12%	43367.92
	Except item no 20 Escom charges				1.00 NO	7188.00	42639.00

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

M. A. R. 57 (Rule 116) No. D

Measurement Book

135282

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
					Grand total	411955.23	
						405907.00	
						405,08 7 = 0	
	Certificate						
	1. Certified that the work done is satisfactorily						
	2. There is no departmental issues by BBMP.						
							29/6

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

1st Part

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	P 3075						
	Head of Account.....						
	Audited & admitted for Rs. 405000						
	.....						
	385300 - 00						
	.....by Cheque						
	and Rs. 19700 - 00 .....by Adjustment						
		BA	405000 - 00				
		RP	4100 - 00				
		Cw	3700 - 00				
		Sew	3700 - 00				
		Hedge	4100 - 00				
		Gate	400 - 00				
		SR	3700 - 00				
			19700 - 00				
			385300 - 00				

Acct. Clerk Project Division

Acct. Supdt. Project Division B.B.M.P

Exe. Engineer Project Division B.B.M.P